

# PS4000 CS-F42-10-1

## Solar Surface Pump System

### System Overview

Head	max. 20 m
Flow rate	max. 59 m <sup>3</sup> /h

### Technical Data

#### Controller PS4000

- Control inputs for dry running protection, remote control etc.
- Protected against reverse polarity, overload and overtemperature
- Integrated MPPT (Maximum Power Point Tracking)

Power	max. 4.0 kW
Input voltage	max. 375 V
Optimum V <sub>mp</sub> *	> 238 V
Motor current	max. 15 A
Efficiency	max. 98 %
Ambient temp.	-30...50 °C
Enclosure class	IP54

#### Motor ECDRIVE 4000 CS-F

- Maintenance-free brushless DC motor
- Premium materials, stainless steel: AL/AISI 304

Rated power	3.5 kW
Efficiency	max. 92 %
Motor speed	900...3,300 rpm
Insulation class	F
Enclosure class	IPX4


#### Pump End PE CS-F42-10-1

- Premium materials

#### Pump Unit PU CS-F42-10-1 (Motor, Pump End)

Water temperature	max. 70 °C
Suction head	max. 3 m

### Standards

 2006/42/EC, 2004/108/EC, 2006/95/EC

IEC/EN 61702:1995,  
IEC/EN 62253 Ed.1

The logos shown reflect the approvals that have been granted for this product family. Products are ordered and supplied with the approvals specific to the market requirements.

\*V<sub>mp</sub>: MPP-voltage under Standard Test Conditions (STC): 1000 W/m<sup>2</sup> solar irradiance, 25 °C cell temperature

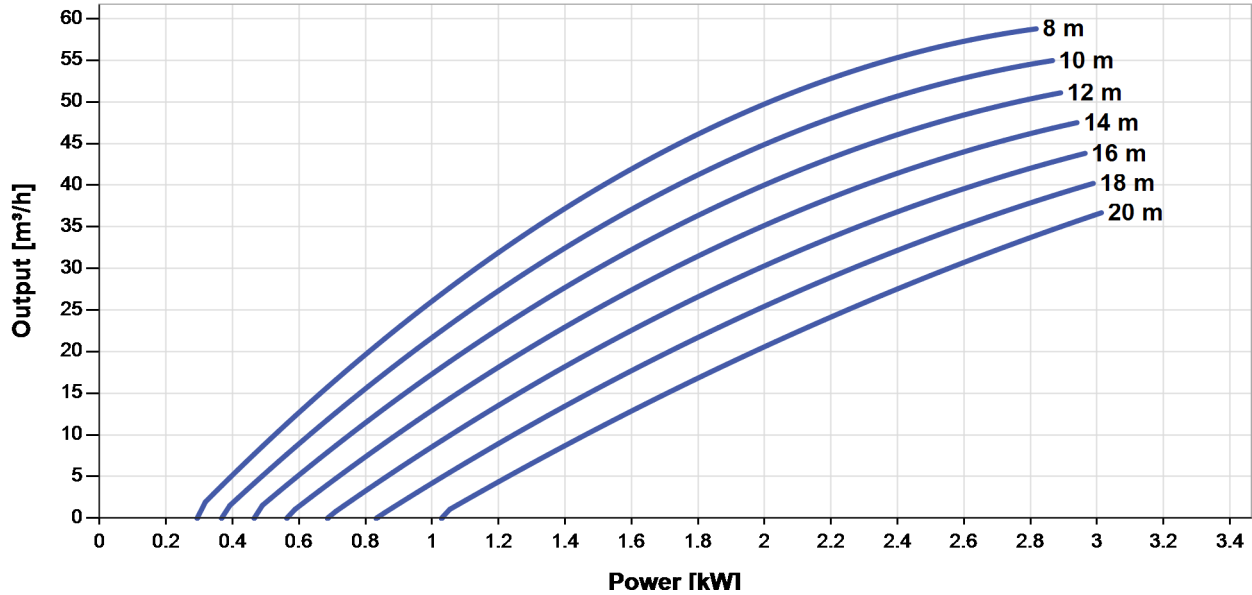


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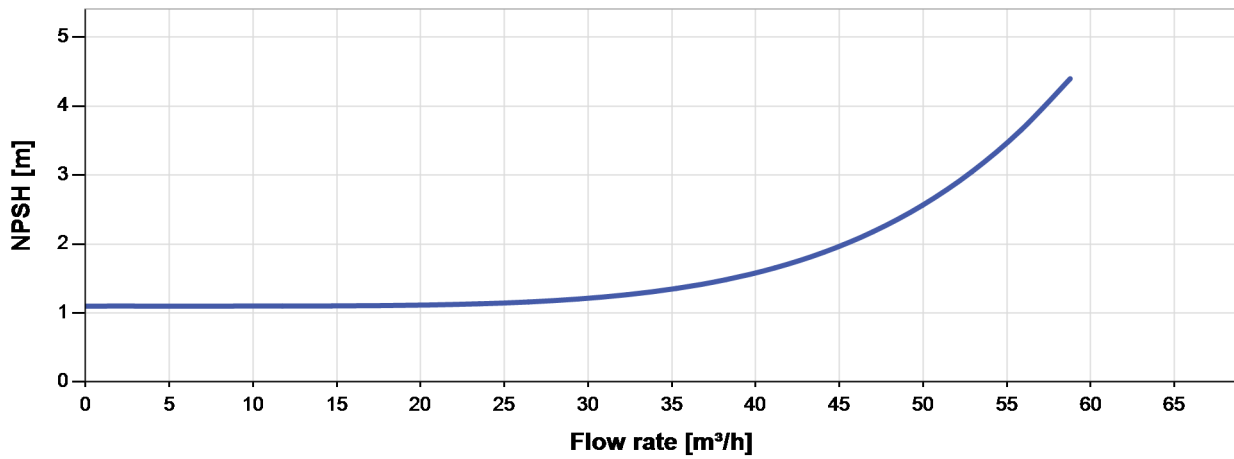
## Solar Surface Pump System

### Pump Chart

Vmp\* > 238 V



### NPSH



The NPSH (Net Positive Suction Head) is NOT the operating suction head. To calculate the operating suction head please refer to the installation manual.

\*Vmp: MPP-voltage under Standard Test Conditions (STC): 1000 W/m² solar irradiance, 25 °C cell temperature



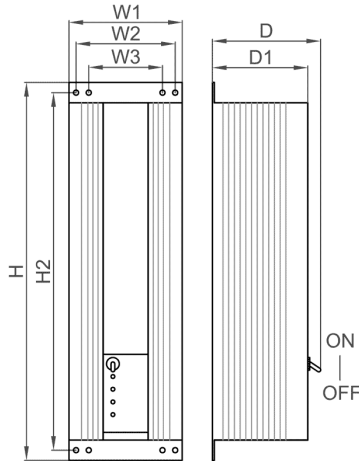
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## Solar Surface Pump System

### Dimensions and Weights

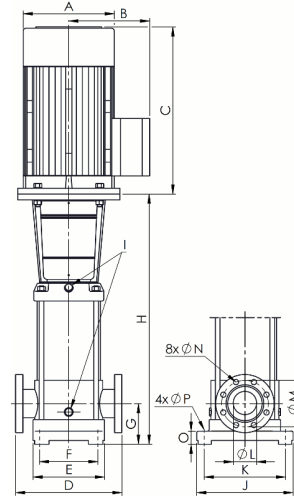
#### Controller

H = 595 mm  
H2 = 563 mm  
W1 = 178 mm  
W2 = 156 mm  
W3 = 116 mm  
D = 165 mm  
D1 = 150 mm



#### Pump Unit

A = 162 mm  
B = 132 mm  
C = 286 mm  
D = 365 mm  
E = 245 mm  
F = 190 mm  
G = 140 mm  
H = 561 mm  
I = G1/2"  
J = 330 mm  
K = 266 mm  
L = 80 mm  
M = 160 mm  
N = 18 mm  
O = 45 mm  
P = 14 mm



	Net weight
Controller	9.0 kg
Pump Unit	72 kg
Motor	15 kg
Pump End	57 kg

